

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 13, 2004, 09:54:15 ; Search time 32 Seconds  
(without alignments)  
188.757 Million cell updates/sec

Title: US-10-066-273-9  
Perfect score: 609  
Sequence: 1 MIVFGWAVFLASRLGQGLL.....QNV DGLVLDTLAVIRTLVDK 117

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 500 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query %			ID	Description
	Score	Match	Length		
1	80	13.1	460	US-09-252-991A-20180	Sequence 20180, A
2	79	13.0	287	US-09-252-991A-30267	Sequence 30267, A
3	78	12.8	1527	US-09-418-710-27	Sequence 27, Appl
4	78	12.8	1531	US-09-418-710-29	Sequence 29, Appl
5	75	12.3	433	US-08-466-120-2	Sequence 2, Appli
6	75	12.3	433	PCT-US94-07266-2	Sequence 2, Appli
7	75	12.3	1525	US-09-418-710-69	Sequence 69, Appl
8	74.5	12.2	462	US-08-865-597A-2	Sequence 2, Appli
9	73.5	12.1	2509	US-08-149-097D-35	Sequence 35, Appl
10	73	12.0	623	US-09-029-348-3	Sequence 3, Appli
11	73	12.0	626	US-09-029-348-2	Sequence 2, Appli
12	72.5	11.9	333	US-09-252-991A-28443	Sequence 28443, A
13	71.5	11.7	562	US-09-252-991A-20178	Sequence 20178, A
14	71.5	11.7	566	US-09-252-991A-18531	Sequence 18531, A
15	71	11.7	863	US-09-252-991A-26099	Sequence 26099, A
16	70	11.5	396	US-09-252-991A-32927	Sequence 32927, A
17	69	11.3	191	US-08-290-665A-198	Sequence 198, App
18	69	11.3	191	US-08-290-665A-199	Sequence 199, App
19	69	11.3	191	US-08-290-665A-200	Sequence 200, App
20	69	11.3	191	US-08-290-665A-201	Sequence 201, App
21	69	11.3	191	US-08-290-665A-202	Sequence 202, App
22	69	11.3	191	US-08-290-665A-203	Sequence 203, App
23	69	11.3	191	PCT-US95-10398-198	Sequence 198, App
24	69	11.3	191	PCT-US95-10398-199	Sequence 199, App
25	69	11.3	191	PCT-US95-10398-200	Sequence 200, App
26	69	11.3	191	PCT-US95-10398-201	Sequence 201, App
27	69	11.3	191	PCT-US95-10398-202	Sequence 202, App

28	69	11.3	191	5	PCT-US95-10398-203	Sequence 203, App
29	69	11.3	319	4	US-08-635-886C-226	Sequence 226, App
30	69	11.3	319	4	US-08-974-690C-226	Sequence 226, App
31	69	11.3	350	4	US-09-252-991A-19537	Sequence 19537, A
32	69	11.3	498	4	US-09-354-151-2	Sequence 2, Appli
33	69	11.3	778	4	US-09-198-452A-508	Sequence 508, App
34	68.5	11.2	788	2	US-08-918-914-4	Sequence 4, Appli
35	68	11.2	149	4	US-09-252-991A-21599	Sequence 21599, A
36	68	11.2	379	4	US-09-252-991A-31693	Sequence 31693, A
37	68	11.2	882	3	US-09-413-814-78	Sequence 78, Appl
38	67.5	11.1	518	4	US-09-252-991A-18753	Sequence 18753, A
39	67.5	11.1	727	2	US-08-475-844-9	Sequence 9, Appli
40	67.5	11.1	727	5	PCT-US95-08429-9	Sequence 9, Appli
41	67.5	11.1	1298	2	US-08-690-473-2	Sequence 2, Appli
42	67.5	11.1	1298	3	US-09-259-821A-2	Sequence 2, Appli
43	67.5	11.1	1298	3	US-08-843-659-2	Sequence 2, Appli
44	67	11.0	393	4	US-09-432-470-2	Sequence 2, Appli
45	67	11.0	393	4	US-09-432-470-4	Sequence 2, Appli
46	67	11.0	395	4	US-09-436-521A-4	Sequence 4, Appli
47	67	11.0	447	4	US-09-252-991A-21810	Sequence 21810, A
48	67	11.0	699	4	US-09-252-991A-26231	Sequence 26231, A
49	67	11.0	1203	4	US-09-661-258-3	Sequence 3, Appli
50	66.5	10.9	124	1	US-08-244-116B-15	Sequence 15, Appl
51	66.5	10.9	191	2	US-08-290-665A-187	Sequence 187, App
52	66.5	10.9	191	2	US-08-290-665A-188	Sequence 188, App
53	66.5	10.9	191	2	US-08-290-665A-189	Sequence 189, App
54	66.5	10.9	191	2	US-08-290-665A-190	Sequence 190, App
55	66.5	10.9	191	2	US-08-290-665A-192	Sequence 192, App
56	66.5	10.9	191	2	US-08-290-665A-195	Sequence 195, App
57	66.5	10.9	191	2	US-08-290-665A-196	Sequence 196, App
58	66.5	10.9	191	5	PCT-US95-10398-187	Sequence 187, App
59	66.5	10.9	191	5	PCT-US95-10398-188	Sequence 188, App
60	66.5	10.9	191	5	PCT-US95-10398-189	Sequence 189, App
61	66.5	10.9	191	5	PCT-US95-10398-190	Sequence 190, App
62	66.5	10.9	191	5	PCT-US95-10398-192	Sequence 192, App
63	66.5	10.9	191	5	PCT-US95-10398-195	Sequence 195, App
64	66.5	10.9	191	5	PCT-US95-10398-196	Sequence 196, App
65	66.5	10.9	262	4	US-09-252-991A-25990	Sequence 25990, A
66	66.5	10.9	319	4	US-08-635-886C-219	Sequence 219, App
67	66.5	10.9	319	4	US-08-974-690C-219	Sequence 219, App
68	66.5	10.9	632	4	US-09-252-991A-32280	Sequence 32280, A
69	66.5	10.9	650	4	US-09-134-000C-5177	Sequence 5177, Ap
70	66	10.8	191	2	US-08-290-665A-205	Sequence 205, App
71	66	10.8	191	5	PCT-US95-10398-205	Sequence 205, App
72	66	10.8	228	1	US-08-442-248-4	Sequence 4, Appli
73	66	10.8	228	1	US-08-440-815-4	Sequence 4, Appli
74	66	10.8	228	3	US-08-379-802-2	Sequence 2, Appli
75	66	10.8	228	3	US-09-048-129-2	Sequence 2, Appli
76	66	10.8	228	3	US-09-048-079-2	Sequence 2, Appli
77	66	10.8	228	3	US-08-486-449-4	Sequence 4, Appli
78	66	10.8	228	4	US-09-214-631-9	Sequence 9, Appli
79	66	10.8	228	4	US-08-578-684-4	Sequence 4, Appli
80	66	10.8	228	5	PCT-US95-15781-5	Sequence 5, Appli
81	66	10.8	297	4	US-09-252-991A-26587	Sequence 26587, A
82	66	10.8	743	3	US-08-910-925-3	Sequence 3, Appli
83	66	10.8	969	4	US-09-252-991A-26118	Sequence 26118, A
84	66	10.8	1291	4	US-09-252-991A-19504	Sequence 19504, A
85	65.5	10.8	140	4	US-09-252-991A-22118	Sequence 22118, A
86	65.5	10.8	191	2	US-08-290-665A-193	Sequence 193, App
87	65.5	10.8	191	5	PCT-US95-10398-193	Sequence 193, App
88	65.5	10.8	299	4	US-09-252-991A-18741	Sequence 18741, A
89	65.5	10.8	319	3	US-08-836-075A-44	Sequence 44, Appl
90	65.5	10.8	319	4	US-08-635-886C-230	Sequence 230, App
91	65.5	10.8	319	4	US-08-974-690C-230	Sequence 230, App
92	65.5	10.8	369	4	US-09-252-991A-27583	Sequence 27583, A
93	65.5	10.8	440	1	US-08-333-358-8	Sequence 8, Appli
94	65.5	10.8	440	1	US-08-463-694-8	Sequence 8, Appli
95	65.5	10.8	440	1	US-08-694-501-8	Sequence 8, Appli
96	65.5	10.8	506	4	US-09-252-991A-18390	Sequence 18390, A
97	65.5	10.8	605	1	US-07-955-905A-24	Sequence 24, Appl
98	65.5	10.8	735	4	US-09-252-991A-32172	Sequence 32172, A
99	65.5	10.8	843	4	US-09-252-991A-18927	Sequence 18927, A
100	65.5	10.8	1678	4	US-09-535-008-69	Sequence 69, Appl

101 65.5 10.8 1679 4 US-09-535-008-65 Sequence 65, Appl  
102 65 10.7 415 4 US-09-252-991A-30711 Sequence 30711, A  
103 65 10.7 419 4 US-09-276-438-13 Sequence 13, Appl  
104 65 10.7 447 1 US-08-373-935-1 Sequence 1, Appl  
105 65 10.7 512 4 US-09-252-991A-20228 Sequence 20228, A  
106 65 10.7 717 3 US-08-910-925-1 Sequence 1, Appl  
107 65 10.7 834 4 US-09-252-991A-18401 Sequence 18401, A  
108 65 10.7 1646 4 US-09-535-008-67 Sequence 67, Appl  
109 65 10.7 1647 4 US-09-535-008-2 Sequence 2, Appl  
110 65 10.7 1649 4 US-09-535-008-75 Sequence 75, Appl  
111 65 10.7 1650 4 US-09-535-008-71 Sequence 71, Appl  
112 65 10.7 1681 4 US-09-535-008-77 Sequence 77, Appl  
113 65 10.7 1682 4 US-09-535-008-73 Sequence 73, Appl  
114 64.5 10.6 166 4 US-09-252-991A-21782 Sequence 21782, A  
115 64.5 10.6 191 2 US-08-290-665A-204 Sequence 204, App  
116 64.5 10.6 191 5 PCT-US95-10398-204 Sequence 204, App  
117 64.5 10.6 236 4 US-09-252-991A-26384 Sequence 26384, A  
118 64.5 10.6 319 4 US-08-635-886C-211 Sequence 211, App  
119 64.5 10.6 319 4 US-08-974-690C-211 Sequence 211, App  
120 64.5 10.6 388 4 US-09-880-137-6 Sequence 6, Appl  
121 64.5 10.6 432 4 US-09-252-991A-18527 Sequence 18527, A  
122 64.5 10.6 537 4 US-09-252-991A-22864 Sequence 22864, A  
123 64.5 10.6 788 4 US-09-252-991A-28544 Sequence 28544, A  
124 64 10.5 190 1 US-07-681-701-16 Sequence 16, Appl  
125 64 10.5 285 4 US-09-071-035-202 Sequence 202, App  
126 64 10.5 319 3 US-08-836-075A-42 Sequence 42, Appl  
127 64 10.5 319 4 US-08-635-886C-229 Sequence 229, App  
128 64 10.5 319 4 US-08-974-690C-229 Sequence 229, App  
129 64 10.5 340 1 US-08-462-195-2 Sequence 2, Appl  
130 64 10.5 340 2 US-08-636-883-2 Sequence 2, Appl  
131 64 10.5 340 3 US-09-127-829-2 Sequence 2, Appl  
132 64 10.5 412 4 US-09-252-991A-20198 Sequence 20198, A  
133 64 10.5 482 4 US-09-252-991A-32573 Sequence 32573, A  
134 64 10.5 1182 3 US-09-041-886-21 Sequence 21, Appl  
135 63.5 10.4 160 1 US-08-479-233-11 Sequence 11, Appl  
136 63.5 10.4 160 5 PCT-US93-00643-11 Sequence 9, Appl  
137 63.5 10.4 281 2 US-08-822-701-9 Sequence 9, Appl  
138 63.5 10.4 281 3 US-08-935-855-9 Sequence 9, Appl  
139 63.5 10.4 465 4 US-09-252-991A-18003 Sequence 18003, A  
140 63.5 10.4 515 4 US-09-252-991A-32630 Sequence 32630, A  
141 63.5 10.4 788 4 US-09-252-991A-28171 Sequence 28171, A  
142 63.5 10.4 791 4 US-09-252-991A-31894 Sequence 31894, A  
143 63.5 10.4 855 2 US-08-816-693A-2 Sequence 2, Appl  
144 63.5 10.4 855 3 US-08-885-291-2 Sequence 2, Appl  
145 63.5 10.4 855 3 US-09-496-672-2 Sequence 2, Appl  
146 63.5 10.4 855 4 US-09-618-425-11 Sequence 11, Appl  
147 63.5 10.4 977 4 US-09-252-991A-16655 Sequence 16655, A  
148 63.5 10.4 1299 4 US-09-252-991A-31121 Sequence 31121, A  
149 63.5 10.4 1341 3 US-08-963-825-18 Sequence 18, Appl  
150 63.5 10.4 1341 4 US-09-500-811-18 Sequence 18, Appl  
151 63.5 10.4 1341 4 US-09-570-573-18 Sequence 18, Appl  
152 63.5 10.4 1341 4 US-09-548-608-18 Sequence 18, Appl  
153 63.5 10.4 1464 4 US-09-331-347C-21 Sequence 21, Appl  
154 63.5 10.4 2353 4 US-08-984-709A-50 Sequence 50, Appl  
155 63 10.3 120 4 US-09-621-976-4604 Sequence 4604, Ap  
156 63 10.3 219 1 US-08-463-115-91 Sequence 91, Appl  
157 63 10.3 219 1 US-08-465-388-91 Sequence 91, Appl  
158 63 10.3 386 4 US-09-252-991A-19227 Sequence 19227, A  
159 63 10.3 446 4 US-09-252-991A-18924 Sequence 18924, A  
160 63 10.3 553 4 US-09-252-991A-17984 Sequence 17984, A  
161 63 10.3 572 4 US-09-252-991A-23878 Sequence 23878, A  
162 63 10.3 575 3 US-08-924-345-3 Sequence 3, Appl  
163 63 10.3 617 1 US-08-191-866D-58 Sequence 58, Appl  
164 63 10.3 617 2 US-08-185-949B-58 Sequence 58, Appl  
165 63 10.3 689 4 US-09-252-991A-31790 Sequence 31790, A  
166 63 10.3 966 1 US-08-571-758-2 Sequence 2, Appl  
167 63 10.3 966 1 US-08-909-984A-2 Sequence 2, Appl  
168 63 10.3 966 1 US-08-909-983-2 Sequence 2, Appl  
169 62.5 10.3 126 1 US-08-276-852-145 Sequence 145, App  
170 62.5 10.3 126 1 US-08-899-575-145 Sequence 145, App  
171 62.5 10.3 126 1 US-08-899-575-145 Sequence 145, App  
172 62.5 10.3 126 5 PCT-US95-08743-145 Sequence 145, App  
173 62.5 10.3 136 4 US-09-252-991A-22685 Sequence 22685, A

174 62.5 10.3 301 4 US-09-252-991A-25370 Sequence 25370, A  
175 62.5 10.3 388 4 US-09-880-137-5 Sequence 5, Appl  
176 62.5 10.3 411 2 US-08-773-870-1 Sequence 1, Appl  
177 62.5 10.3 421 4 US-09-252-991A-32323 Sequence 32323, A  
178 62.5 10.3 482 4 US-09-252-991A-23213 Sequence 23213, A  
179 62.5 10.3 486 4 US-09-252-991A-32119 Sequence 32119, A  
180 62.5 10.3 504 4 US-09-252-991A-20317 Sequence 20317, A  
181 62.5 10.3 557 4 US-09-134-000C-5061 Sequence 5061, Ap  
182 62.5 10.3 659 4 US-09-252-991A-30353 Sequence 30353, A  
183 62.5 10.3 660 4 US-09-252-991A-22842 Sequence 22842, A  
184 62.5 10.3 703 3 US-08-910-925-4 Sequence 4, Appl  
185 62.5 10.3 725 4 US-09-252-991A-23752 Sequence 23752, A  
186 62.5 10.3 1213 3 US-09-413-814-79 Sequence 79, Appl  
187 62.5 10.3 3010 3 US-09-014-416-3 Sequence 3, Appl  
188 62.5 10.3 3011 3 US-09-014-416-5 Sequence 5, Appl  
189 62 10.2 191 2 US-08-290-665A-161 Sequence 161, App  
190 62 10.2 191 2 US-08-290-665A-172 Sequence 172, App  
191 62 10.2 191 2 US-08-290-665A-174 Sequence 174, App  
192 62 10.2 191 5 PCT-US95-10398-161 Sequence 161, App  
193 62 10.2 191 5 PCT-US95-10398-172 Sequence 172, App  
194 62 10.2 191 5 PCT-US95-10398-174 Sequence 174, App  
195 62 10.2 276 4 US-09-252-991A-32703 Sequence 32703, A  
196 62 10.2 334 4 US-08-504-617-7 Sequence 7, Appl  
197 62 10.2 479 1 US-08-313-553-7 Sequence 7, Appl  
198 62 10.2 479 3 US-08-767-993-7 Sequence 7, Appl  
199 62 10.2 482 4 US-09-252-991A-23559 Sequence 23559, A  
200 62 10.2 719 4 US-09-252-991A-28576 Sequence 28576, A  
201 62 10.2 726 4 US-09-252-991A-20675 Sequence 20675, A  
202 61.5 10.1 154 3 US-08-854-531-2 Sequence 2, Appl  
203 61.5 10.1 154 5 PCT-US95-13552-2 Sequence 2, Appl  
204 61.5 10.1 191 2 US-08-290-665A-166 Sequence 166, App  
205 61.5 10.1 191 2 US-08-290-665A-171 Sequence 171, App  
206 61.5 10.1 191 2 US-08-290-665A-191 Sequence 191, App  
207 61.5 10.1 191 2 US-08-290-665A-197 Sequence 197, App  
208 61.5 10.1 191 2 US-08-290-665A-206 Sequence 206, App  
209 61.5 10.1 191 3 US-08-869-380-2 Sequence 2, Appl  
210 61.5 10.1 191 5 PCT-US95-10398-166 Sequence 166, App  
211 61.5 10.1 191 5 PCT-US95-10398-171 Sequence 171, App  
212 61.5 10.1 191 5 PCT-US95-10398-191 Sequence 191, App  
213 61.5 10.1 191 5 PCT-US95-10398-197 Sequence 197, App  
214 61.5 10.1 191 5 PCT-US95-10398-206 Sequence 206, App  
215 61.5 10.1 191 5 PCT-US95-13552-15 Sequence 15, Appl  
216 61.5 10.1 228 4 US-09-252-991A-18111 Sequence 18111, A  
217 61.5 10.1 262 4 US-09-252-991A-19030 Sequence 19030, A  
218 61.5 10.1 319 3 US-08-836-075A-12 Sequence 12, Appl  
219 61.5 10.1 319 4 US-08-635-886C-199 Sequence 199, App  
220 61.5 10.1 319 4 US-08-635-886C-217 Sequence 217, App  
221 61.5 10.1 319 4 US-08-635-886C-228 Sequence 228, App  
222 61.5 10.1 319 4 US-08-974-690C-199 Sequence 199, App  
223 61.5 10.1 319 4 US-08-974-690C-217 Sequence 217, App  
224 61.5 10.1 319 4 US-08-974-690C-228 Sequence 228, App  
225 61.5 10.1 470 4 US-09-252-991A-28702 Sequence 28702, A  
226 61.5 10.1 541 4 US-09-252-991A-17206 Sequence 17206, A  
227 61.5 10.1 548 4 US-09-252-991A-17591 Sequence 17591, A  
228 61.5 10.1 668 4 US-09-134-000C-5289 Sequence 5289, Ap  
229 61.5 10.1 753 4 US-09-252-991A-28934 Sequence 28934, A  
230 61.5 10.1 814 4 US-09-252-991A-31520 Sequence 31520, A  
231 61.5 10.1 846 3 US-08-885-291-55 Sequence 55, Appl  
232 61.5 10.1 846 3 US-09-107-847-2 Sequence 2, Appl  
233 61.5 10.1 846 3 US-09-496-672-55 Sequence 55, Appl  
234 61.5 10.1 945 4 US-08-747-562-16 Sequence 16, Appl  
235 61.5 10.1 1089 4 US-09-252-991A-20334 Sequence 20334, A  
236 61.5 10.1 1706 4 US-09-252-991A-31760 Sequence 31760, A  
237 61.5 10.1 2285 4 US-09-252-991A-17790 Sequence 17790, A  
238 61 10.0 144 3 US-08-444-818-103 Sequence 103, App  
239 61 10.0 150 1 US-07-681-703B-16 Sequence 16, Appl  
240 61 10.0 150 2 US-08-407-410B-16 Sequence 16, Appl  
241 61 10.0 150 2 US-08-485-500-16 Sequence 16, Appl  
242 61 10.0 150 5 PCT-US91-02370-16 Sequence 16, Appl  
243 61 10.0 154 4 US-09-252-991A-29099 Sequence 29099, A  
244 61 10.0 169 3 US-08-444-818-93 Sequence 93, Appl  
245 61 10.0 182 4 US-10-104-966-2 Sequence 2, Appl  
246 61 10.0 190 3 US-08-078-271B-1 Sequence 1, Appl

247	61	10.0	191	2	US-08-290-665A-155	Sequence 155, App	320	61	10.0	1296	4	US-08-857-636-60	Sequence 60, Appl
248	61	10.0	191	2	US-08-290-665A-156	Sequence 156, App	321	61	10.0	1461	4	US-09-585-887-9	Sequence 9, Appli
249	61	10.0	191	2	US-08-290-665A-157	Sequence 157, App	322	61	10.0	1461	4	US-09-289-578-9	Sequence 9, Appli
250	61	10.0	191	2	US-08-290-665A-158	Sequence 158, App	323	61	10.0	1648	1	US-08-188-281B-12	Sequence 12, Appl
251	61	10.0	191	2	US-08-290-665A-159	Sequence 159, App	324	61	10.0	1648	5	PCT-US94-07280-12	Sequence 12, Appl
252	61	10.0	191	2	US-08-290-665A-160	Sequence 160, App	325	61	10.0	1648	5	PCT-US95-01087-12	Sequence 12, Appl
253	61	10.0	191	3	US-08-380-160-3	Sequence 3, Appli	326	61	10.0	2013	1	US-08-324-977-12	Sequence 12, Appl
254	61	10.0	191	4	US-09-763-260-2	Sequence 2, Appli	327	61	10.0	2013	2	US-08-384-616-12	Sequence 12, Appl
255	61	10.0	191	4	US-09-763-260-4	Sequence 4, Appli	328	61	10.0	2013	2	US-08-904-686A-12	Sequence 12, Appl
256	61	10.0	191	5	PCT-US95-10398-155	Sequence 155, App	329	61	10.0	2013	3	US-09-315-850-12	Sequence 12, Appl
257	61	10.0	191	5	PCT-US95-10398-156	Sequence 156, App	330	61	10.0	2955	2	US-08-443-260-3	Sequence 3, Appli
258	61	10.0	191	5	PCT-US95-10398-157	Sequence 157, App	331	61	10.0	2955	3	US-08-442-805A-3	Sequence 3, Appli
259	61	10.0	191	5	PCT-US95-10398-158	Sequence 158, App	332	61	10.0	2955	3	US-08-443-900A-3	Sequence 3, Appli
260	61	10.0	191	5	PCT-US95-10398-159	Sequence 159, App	333	61	10.0	2955	3	US-08-444-818-124	Sequence 124, App
261	61	10.0	191	5	PCT-US95-10398-160	Sequence 160, App	334	61	10.0	2955	3	US-08-249-843-3	Sequence 3, Appli
262	61	10.0	203	4	US-09-252-991A-19025	Sequence 19025, A	335	61	10.0	2995	3	US-08-444-818-138	Sequence 138, App
263	61	10.0	215	1	US-07-681-703B-12	Sequence 12, Appl	336	61	10.0	3010	1	US-08-324-977-2	Sequence 2, Appli
264	61	10.0	215	1	US-07-681-703B-14	Sequence 14, Appl	337	61	10.0	3010	1	US-08-324-977-14	Sequence 14, Appl
265	61	10.0	215	5	PCT-US91-02370-12	Sequence 12, Appl	338	61	10.0	3010	2	US-08-384-616-2	Sequence 2, Appli
266	61	10.0	215	5	PCT-US91-02370-14	Sequence 14, Appl	339	61	10.0	3010	2	US-08-384-616-14	Sequence 14, Appl
267	61	10.0	217	2	US-08-407-410B-12	Sequence 12, Appl	340	61	10.0	3010	2	US-08-904-686A-2	Sequence 2, Appli
268	61	10.0	217	2	US-08-407-410B-14	Sequence 14, Appl	341	61	10.0	3010	2	US-08-904-686A-14	Sequence 14, Appl
269	61	10.0	217	2	US-08-485-500-12	Sequence 12, Appl	342	61	10.0	3010	3	US-09-315-850-2	Sequence 2, Appli
270	61	10.0	217	2	US-08-485-500-14	Sequence 14, Appl	343	61	10.0	3010	3	US-09-315-850-14	Sequence 14, Appl
271	61	10.0	223	1	US-08-143-579A-4	Sequence 4, Appli	344	61	10.0	3011	1	US-08-188-281B-1	Sequence 1, Appli
272	61	10.0	223	1	US-08-143-578A-4	Sequence 4, Appli	345	61	10.0	3011	1	US-08-453-552-1	Sequence 1, Appli
273	61	10.0	223	3	US-08-454-928-8	Sequence 8, Appli	346	61	10.0	3011	1	US-08-453-552-2	Sequence 2, Appli
274	61	10.0	315	4	US-09-252-991A-16743	Sequence 16743, A	347	61	10.0	3011	1	US-08-440-103-36	Sequence 36, Appl
275	61	10.0	348	3	US-09-216-295-16	Sequence 16, Appl	348	61	10.0	3011	1	US-08-440-542-36	Sequence 36, Appl
276	61	10.0	348	4	US-09-632-570-16	Sequence 16, Appl	349	61	10.0	3011	1	US-07-910-760-10	Sequence 10, Appl
277	61	10.0	348	4	US-09-632-575-46	Sequence 46, Appl	350	61	10.0	3011	1	US-08-440-519-10	Sequence 10, Appl
278	61	10.0	382	4	US-09-252-991A-26780	Sequence 26780, A	351	61	10.0	3011	1	US-08-231-368-36	Sequence 36, Appl
279	61	10.0	389	1	US-08-324-977-4	Sequence 4, Appli	352	61	10.0	3011	1	US-08-440-210-36	Sequence 36, Appl
280	61	10.0	389	1	US-08-324-977-10	Sequence 10, Appl	353	61	10.0	3011	2	US-08-710-637-1	Sequence 1, Appli
281	61	10.0	389	2	US-08-384-616-4	Sequence 4, Appli	354	61	10.0	3011	2	US-08-710-637-2	Sequence 2, Appli
282	61	10.0	389	2	US-08-384-616-10	Sequence 10, Appl	355	61	10.0	3011	2	US-08-833-678A-6	Sequence 6, Appli
283	61	10.0	389	2	US-08-904-686A-4	Sequence 4, Appli	356	61	10.0	3011	3	US-08-811-566-20	Sequence 20, Appl
284	61	10.0	389	2	US-08-904-686A-10	Sequence 10, Appl	357	61	10.0	3011	3	US-08-444-818-177	Sequence 177, App
285	61	10.0	389	3	US-09-315-850-4	Sequence 4, Appli	358	61	10.0	3011	3	US-09-014-416-1	Sequence 1, Appli
286	61	10.0	389	3	US-09-315-850-10	Sequence 10, Appl	359	61	10.0	3011	3	US-08-529-169A-6	Sequence 6, Appli
287	61	10.0	396	3	US-08-867-611-2	Sequence 2, Appli	360	61	10.0	3011	3	US-09-388-874-2	Sequence 2, Appli
288	61	10.0	396	4	US-09-690-359-2	Sequence 2, Appli	361	61	10.0	3011	4	US-09-046-604-36	Sequence 36, Appl
289	61	10.0	396	5	PCT-US92-06965A-7	Sequence 7, Appli	362	61	10.0	3011	4	US-08-440-549-10	Sequence 10, Appl
290	61	10.0	418	4	US-09-252-991A-32633	Sequence 32633, A	363	61	10.0	3011	4	US-08-850-328-1	Sequence 1, Appli
291	61	10.0	419	4	US-09-543-681A-6703	Sequence 6703, Ap	364	61	10.0	3011	4	US-09-034-756-20	Sequence 20, Appl
292	61	10.0	450	4	US-08-635-886C-179	Sequence 179, App	365	61	10.0	3011	4	US-09-483-799-6	Sequence 6, Appli
293	61	10.0	450	4	US-08-635-886C-180	Sequence 180, App	366	61	10.0	3011	4	US-09-916-359-2	Sequence 2, Appli
294	61	10.0	450	4	US-08-635-886C-187	Sequence 187, App	367	61	10.0	3011	4	US-10-104-966-1	Sequence 1, Appli
295	61	10.0	450	4	US-08-635-886C-190	Sequence 190, App	368	61	10.0	3011	4	US-09-952-572-9	Sequence 9, Appli
296	61	10.0	450	4	US-08-635-886C-193	Sequence 193, App	369	61	10.0	3011	5	PCT-US91-02225-10	Sequence 10, Appl
297	61	10.0	450	4	US-08-974-690C-179	Sequence 179, App	370	61	10.0	3011	5	PCT-US93-00907-1	Sequence 1, Appli
298	61	10.0	450	4	US-08-974-690C-180	Sequence 180, App	371	61	10.0	3011	5	PCT-US93-00907-2	Sequence 2, Appli
299	61	10.0	450	4	US-08-974-690C-187	Sequence 187, App	372	61	10.0	3011	5	PCT-US94-07280-1	Sequence 1, Appli
300	61	10.0	450	4	US-08-974-690C-190	Sequence 190, App	373	61	10.0	3011	5	PCT-US95-01087-1	Sequence 1, Appli
301	61	10.0	450	4	US-08-974-690C-193	Sequence 193, App	374	61	10.0	3012	3	US-08-811-566-2	Sequence 2, Appli
302	61	10.0	478	4	US-09-252-991A-19635	Sequence 19635, A	375	61	10.0	3012	4	US-09-034-756-2	Sequence 2, Appli
303	61	10.0	484	4	US-09-252-991A-29252	Sequence 29252, A	376	60.5	9.9	105	4	US-09-663-600A-121	Sequence 121, App
304	61	10.0	534	4	US-09-252-991A-22537	Sequence 22537, A	377	60.5	9.9	141	4	US-09-252-991A-23798	Sequence 23798, A
305	61	10.0	564	3	US-09-211-704A-8	Sequence 8, Appli	378	60.5	9.9	160	4	US-10-133-007-2	Sequence 2, Appli
306	61	10.0	568	4	US-09-252-991A-27551	Sequence 27551, A	379	60.5	9.9	177	4	US-10-133-007-1	Sequence 1, Appli
307	61	10.0	666	4	US-09-252-991A-25444	Sequence 25444, A	380	60.5	9.9	384	4	US-09-328-352-4857	Sequence 4857, Ap
308	61	10.0	669	3	US-08-704-711A-3	Sequence 3, Appli	381	60.5	9.9	386	4	US-09-252-991A-31635	Sequence 31635, A
309	61	10.0	669	4	US-09-521-220-3	Sequence 3, Appli	382	60.5	9.9	410	4	US-09-252-991A-30570	Sequence 30570, A
310	61	10.0	669	4	US-09-391-104-29	Sequence 29, Appl	383	60.5	9.9	447	4	US-09-252-991A-31577	Sequence 31577, A
311	61	10.0	770	1	US-08-445-135-2	Sequence 2, Appli	384	60.5	9.9	496	4	US-09-252-991A-21949	Sequence 21949, A
312	61	10.0	777	4	US-09-252-991A-27864	Sequence 27864, A	385	60.5	9.9	507	4	US-09-252-991A-17004	Sequence 17004, A
313	61	10.0	854	2	US-09-070-060-4	Sequence 4, Appli	386	60.5	9.9	540	4	US-09-252-991A-26221	Sequence 26221, A
314	61	10.0	854	3	US-09-357-746-4	Sequence 4, Appli	387	60.5	9.9	573	4	US-09-252-991A-24983	Sequence 24983, A
315	61	10.0	967	1	US-08-188-281B-13	Sequence 13, Appl	388	60.5	9.9	722	4	US-09-252-991A-26839	Sequence 26839, A
316	61	10.0	967	5	PCT-US94-07280-13	Sequence 13, Appl	389	60.5	9.9	763	1	US-08-473-122-2	Sequence 2, Appli
317	61	10.0	967	5	PCT-US95-01087-13	Sequence 13, Appl	390	60.5	9.9	763	2	US-08-472-478-2	Sequence 2, Appli
318	61	10.0	1004	3	US-08-916-352-2	Sequence 2, Appli	391	60.5	9.9	763	2	US-08-463-081B-8	Sequence 8, Appli
319	61	10.0	1172	1	US-08-313-288B-19	Sequence 19, Appl	392	60.5	9.9	763	2	US-08-461-379A-8	Sequence 8, Appli



393	60.5	9.9	763	2	US-08-462-390B-8	Sequence 8, Appli
394	60.5	9.9	763	3	US-08-463-074B-8	Sequence 8, Appli
395	60.5	9.9	763	3	US-08-465-585C-8	Sequence 8, Appli
396	60.5	9.9	763	3	US-08-652-446-8	Sequence 8, Appli
397	60.5	9.9	763	4	US-08-481-659C-2	Sequence 2, Appli
398	60	9.9	203	4	US-09-252-991A-18002	Sequence 18002, A
399	60	9.9	217	4	US-09-252-991A-30509	Sequence 30509, A
400	60	9.9	225	4	US-09-071-035-204	Sequence 204, App
401	60	9.9	328	1	US-08-414-926A-9	Sequence 9, Appli
402	60	9.9	328	2	US-08-926-922-9	Sequence 9, Appli
403	60	9.9	328	3	US-09-253-682-9	Sequence 9, Appli
404	60	9.9	328	3	US-09-527-657-9	Sequence 9, Appli
405	60	9.9	328	4	US-09-892-100-9	Sequence 9, Appli
406	60	9.9	335	4	US-09-252-991A-22635	Sequence 22635, A
407	60	9.9	335	4	US-09-252-991A-24899	Sequence 24899, A
408	60	9.9	389	4	US-09-252-991A-32389	Sequence 32389, A
409	60	9.9	419	4	US-09-252-991A-21593	Sequence 21593, A
410	60	9.9	422	4	US-09-252-991A-19232	Sequence 19232, A
411	60	9.9	450	4	US-08-635-886C-181	Sequence 181, App
412	60	9.9	450	4	US-08-974-690C-181	Sequence 181, App
413	60	9.9	467	4	US-09-252-991A-20689	Sequence 20689, A
414	60	9.9	483	3	US-09-263-023-2	Sequence 2, Appli
415	60	9.9	483	4	US-09-471-867-2	Sequence 2, Appli
416	60	9.9	590	4	US-09-252-991A-19127	Sequence 19127, A
417	60	9.9	604	4	US-09-391-104-30	Sequence 30, Appli
418	60	9.9	607	3	US-09-000-041A-2	Sequence 2, Appli
419	60	9.9	607	3	US-09-211-704A-10	Sequence 10, Appli
420	60	9.9	638	4	US-09-252-991A-27646	Sequence 27646, A
421	60	9.9	724	4	US-09-252-991A-31715	Sequence 31715, A
422	60	9.9	852	2	US-09-070-060-3	Sequence 3, Appli
423	60	9.9	852	3	US-09-357-746-3	Sequence 3, Appli
424	60	9.9	911	4	US-09-688-188B-92	Sequence 92, Appli
425	60	9.9	911	4	US-09-291-417D-92	Sequence 92, Appli
426	60	9.9	966	4	US-09-688-188B-154	Sequence 154, App
427	60	9.9	966	4	US-09-291-417D-154	Sequence 154, App
428	60	9.9	1403	4	US-09-252-991A-25500	Sequence 25500, A
429	60	9.9	2894	2	US-08-466-975A-23	Sequence 23, Appli
430	60	9.9	2894	2	US-08-391-671A-23	Sequence 23, Appli
431	60	9.9	2894	3	US-08-467-902A-23	Sequence 23, Appli
432	60	9.9	2894	3	US-09-275-265-23	Sequence 23, Appli
433	60	9.9	2894	4	US-09-941-611-23	Sequence 23, Appli
434	59.5	9.8	27	1	US-07-681-701-10	Sequence 10, Appli
435	59.5	9.8	158	3	US-08-836-075A-66	Sequence 66, Appli
436	59.5	9.8	191	2	US-08-290-665A-177	Sequence 177, App
437	59.5	9.8	191	2	US-08-290-665A-180	Sequence 180, App
438	59.5	9.8	191	5	PCT-US95-10398-177	Sequence 177, App
439	59.5	9.8	191	5	PCT-US95-10398-180	Sequence 180, App
440	59.5	9.8	217	4	US-09-252-991A-28385	Sequence 28385, A
441	59.5	9.8	234	4	US-09-199-637A-61	Sequence 61, Appli
442	59.5	9.8	236	4	US-09-252-991A-26280	Sequence 26280, A
443	59.5	9.8	259	4	US-09-252-991A-27735	Sequence 27735, A
444	59.5	9.8	261	4	US-09-252-991A-29294	Sequence 29294, A
445	59.5	9.8	373	4	US-09-252-991A-20254	Sequence 20254, A
446	59.5	9.8	374	4	US-09-252-991A-23565	Sequence 23565, A
447	59.5	9.8	377	1	US-08-480-882B-6	Sequence 6, Appli
448	59.5	9.8	377	1	US-08-480-210-6	Sequence 6, Appli
449	59.5	9.8	377	1	US-08-220-401-4	Sequence 4, Appli
450	59.5	9.8	377	2	US-08-437-362-4	Sequence 4, Appli
451	59.5	9.8	425	4	US-09-252-991A-24895	Sequence 24895, A
452	59.5	9.8	425	4	US-09-252-991A-26326	Sequence 26326, A
453	59.5	9.8	429	4	US-09-252-991A-33116	Sequence 33116, A
454	59.5	9.8	450	4	US-08-635-886C-200	Sequence 200, App
455	59.5	9.8	450	4	US-08-974-690C-200	Sequence 200, App
456	59.5	9.8	458	4	US-09-252-991A-19911	Sequence 19911, A
457	59.5	9.8	543	4	US-09-252-991A-32192	Sequence 32192, A
458	59.5	9.8	713	4	US-09-252-991A-32624	Sequence 32624, A
459	59.5	9.8	715	4	US-09-252-991A-32740	Sequence 32740, A
460	59.5	9.8	731	3	US-09-115-446-2	Sequence 2, Appli
461	59.5	9.8	731	4	US-09-275-252A-10	Sequence 10, Appli
462	59.5	9.8	731	4	US-09-565-590-2	Sequence 2, Appli
463	59.5	9.8	783	4	US-09-252-991A-18035	Sequence 18035, A
464	59.5	9.8	3033	1	US-07-925-695-5	Sequence 5, Appli
465	59.5	9.8	3079	5	PCT-US94-00198-4	Sequence 4, Appli

466	59	9.7	207	4	US-09-252-991A-32043	Sequence 32043, A
467	59	9.7	212	4	US-09-489-039A-13074	Sequence 13074, A
468	59	9.7	251	4	US-09-252-991A-32000	Sequence 32000, A
469	59	9.7	278	4	US-09-252-991A-25529	Sequence 25529, A
470	59	9.7	305	4	US-09-252-991A-17594	Sequence 17594, A
471	59	9.7	312	4	US-09-252-991A-19787	Sequence 19787, A
472	59	9.7	346	4	US-09-252-991A-22386	Sequence 22386, A
473	59	9.7	353	4	US-09-252-991A-32638	Sequence 32638, A
474	59	9.7	384	4	US-09-252-991A-18786	Sequence 18786, A
475	59	9.7	384	4	US-09-252-991A-30256	Sequence 30256, A
476	59	9.7	402	4	US-09-252-991A-24729	Sequence 24729, A
477	59	9.7	432	4	US-09-543-681A-5369	Sequence 5369, Ap
478	59	9.7	435	4	US-09-252-991A-23753	Sequence 23753, A
479	59	9.7	456	4	US-09-252-991A-30525	Sequence 30525, A
480	59	9.7	595	4	US-09-252-991A-17434	Sequence 17434, A
481	59	9.7	625	4	US-09-252-991A-19871	Sequence 19871, A
482	59	9.7	693	4	US-09-252-991A-26071	Sequence 26071, A
483	59	9.7	855	4	US-09-489-039A-12429	Sequence 12429, A
484	59	9.7	1020	4	US-09-252-991A-28870	Sequence 28870, A
485	59	9.7	1447	2	US-08-540-406-19	Sequence 19, Appli
486	59	9.7	1447	3	US-08-656-055-19	Sequence 19, Appli
487	59	9.7	1447	3	US-08-954-668-19	Sequence 19, Appli
488	59	9.7	1447	3	US-09-268-140-5	Sequence 5, Appli
489	59	9.7	1447	4	US-08-918-658-19	Sequence 19, Appli
490	59	9.7	1447	4	US-09-724-631-19	Sequence 19, Appli
491	59	9.7	1447	4	US-08-954-701A-19	Sequence 19, Appli
492	59	9.7	1447	5	PCT-US95-13233-19	Sequence 19, Appli
493	59	9.7	1627	4	US-09-252-991A-28863	Sequence 28863, A
494	58.5	9.6	138	3	US-08-836-075A-60	Sequence 60, Appli
495	58.5	9.6	169	3	US-08-483-533-28	Sequence 28, Appli
496	58.5	9.6	169	4	US-09-283-471A-28	Sequence 28, Appli
497	58.5	9.6	191	2	US-08-290-665A-162	Sequence 162, App
498	58.5	9.6	191	2	US-08-290-665A-163	Sequence 163, App
499	58.5	9.6	191	2	US-08-290-665A-164	Sequence 164, App
500	58.5	9.6	191	2	US-08-290-665A-165	Sequence 165, App

ALIGNMENTS

RESULT 1

US-09-252-991A-20180  
; Sequence 20180, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252.991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 20180  
; LENGTH: 460  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-20180

Query Match 13.1%; Score 80; DB 4; Length 460;  
Best Local Similarity 28.6%; Pred. No. 0.42;  
Matches 20; Conservative 11; Mismatches 23; Indels 16; Gaps 2;

Qy	32	GTGGAATTMGNSICRDDSVDTCQQQAENSAVPTADTRSQPRDPVPRRRGRGPH	91
Db	373	GQGQAAVQAG-----EQADPEQRVPGEAIOA----NRGEDPVEPPGERGDH	416
Qy	92	EPRRKKQNV	101
Db	417	EQQRQGRHVD	426

```
RESULT 2
US-09-252-991A-30267
; Sequence 30267, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30267
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30267
```

```
Query Match      13.0%; Score 79; DB 4; Length 287;
Best Local Similarity 37.5%; Pred. No. 0.3;
Matches 21; Conservative 7; Mismatches 24; Indels 4; Gaps 1;

QY 51 GTDSDVDTQQQAENS AVPTADTRS QPRDPVRPP-----RRGRGPHEPRKKQNVDG 102
Db 15 GRDPGKRTQQRDRDHPAGPVARARPGPARPRRRPGGLAGRGRGAGKHRRRRPRQVPG 70
```

```
RESULT 3
US-09-418-710-27
; Sequence 27, Application US/09418710
; Patent No. 6596482
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-042001
; CURRENT APPLICATION NUMBER: US/09/418,710
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01783
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JP 9/310027
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: JP 9/116570
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 1527
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-418-710-27
```

```
Query Match      12.8%; Score 78; DB 4; Length 1527;
Best Local Similarity 27.5%; Pred. No. 3.5;
Matches 22; Conservative 12; Mismatches 26; Indels 20; Gaps 3;

QY 48 DDSGTDDSDVTQQQAENS AVPTADTRS QPRDPVR-----PP-----RRGRGPHEPRR 95
Db 1255 EDDSDDEEEEEEEEEEDYE VAGLR LRPKRTIRGKHSVIPPAARSGRRPGKKPHSTRR 1314

QY 96 KK-----QNV DGLVLD T 107
Db 1315 SQPKAPPVDDAEVDELVLQT 1334
```

```
RESULT 4
US-09-418-710-29
; Sequence 29, Application US/09418710
```

```
; Patent No. 6596482
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-042001
; CURRENT APPLICATION NUMBER: US/09/418,710
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01783
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JP 9/310027
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: JP 9/116570
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 1531
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-418-710-29
```

```
Query Match      12.8%; Score 78; DB 4; Length 1531;
Best Local Similarity 27.5%; Pred. No. 3.5;
Matches 22; Conservative 12; Mismatches 26; Indels 20; Gaps 3;

QY 48 DDSGTDDSDVTQQQAENS AVPTADTRS QPRDPVR-----PP-----RRGRGPHEPRR 95
Db 1259 EDDSDDEEEEEEEEEEDYE VAGLR LRPKRTIRGKHSVIPPAARSGRRPGKKPHSTRR 1318

QY 96 KK-----QNV DGLVLD T 107
Db 1319 SQPKAPPVDDAEVDELVLQT 1338
```

```
RESULT 5
US-08-466-120-2
; Sequence 2, Application US/08466120
; Patent No. 5869284
; GENERAL INFORMATION:
; APPLICANT: CAO, ET AL.
; TITLE OF INVENTION: Retinoic Acid Receptor Epsilon
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,120
; FILING DATE: June 6, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/07266
; FILING DATE: 24 JUN 94
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-354
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 433 AMINO ACIDS
; TYPE: AMINO ACID
```



Matches 21; Conservative 10; Mismatches 36; Indels 5; Gaps 1;  
QY 12 SRSLGQGLLLTLEEHIAHFLGTGGAATTMGNSCICRDDSGTDDSVDTQQQQAENSAVPTA 71  
Db 328 SRQLSDGIAAGIKKGIDAFAGTGPAPTTSST-----PEASTAPAPSTPPQTPTEDTLVPAT 382  
QY 72 DTRSQRDPVRP 83  
Db 383 STPAPGPAPTAP 394

RESULT 9  
US-08-149-097D-35  
; Sequence 35, Application US/08149097D  
; Patent No. 5874236  
; GENERAL INFORMATION:  
; APPLICANT: Harpold, Michael  
; APPLICANT: Ellis, Steven  
; APPLICANT: Williams, Mark  
; APPLICANT: Feldman, Daniel  
; APPLICANT: McCue, Ann  
; APPLICANT: Brenner, Robert  
; TITLE OF INVENTION: HUMAN CALCIUM CHANNEL COMPOSITIONS AND  
; METHODS  
; NUMBER OF SEQUENCES: 40  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Brown, Martin, Haller & McClain  
; STREET: 1660 Union Street  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92101-2926  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/149,097D  
; FILING DATE: 05-NOV-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/105,536  
; FILING DATE: 11-AUG-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US92/06903  
; FILING DATE: 14-AUG-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/914,231  
; FILING DATE: 13-JUL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/868,354  
; FILING DATE: 10-APR-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/745,206  
; FILING DATE: 15-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/620,250  
; FILING DATE: 30-NOV-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/482,384  
; FILING DATE: 20-FEB-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/603,751  
; FILING DATE: 04-APR-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US89/01408  
; FILING DATE: 04-APR-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/176,899  
; FILING DATE: 04-APR-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Seidman, Stephanie L.

; REGISTRATION NUMBER: 33,779  
; REFERENCE/DOCKET NUMBER: 6362-55038  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 238-0999  
; TELEFAX: (619) 238-0062  
; INFORMATION FOR SEQ ID NO: 35:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2509 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE:  
; FEATURE:  
; OTHER INFORMATION: /product= "Alpha1A-1 subunit of  
; OTHER INFORMATION: human calcium channel"  
US-08-149-097D-35  
Query Match 12.1%; Score 73.5; DB 2; Length 2509;  
Best Local Similarity 24.2%; Pred. No. 23;  
Matches 31; Conservative 9; Mismatches 39; Indels 49; Gaps 4;  
QY 12 SRSLGQGLLLTLEEHIAHFLGTGG-----AATTMGNSC----- 44  
Db 2251 SRSPSEG-----REHMAHRQGSVVSGSPAPSTGTSTPRRGRQLPQTPTSTPRPHVSY 2305  
QY 45 -ICRDDSGTDDSVDTQQQQAENSAV-----PTADTRSQRDPVRPPRRG 87  
Db 2306 PVIRKAGSGPPQQQQQQQQQAVARPGRAATSGPRRYPGPTAEPLAGDRPPTGGHSSG 2365  
QY 88 RGPHEPRR 95  
Db 2366 RSPRMERR 2373  
RESULT 10  
US-09-029-348-3  
; Sequence 3, Application US/09029348  
; Patent No. 6171827  
; GENERAL INFORMATION:  
; APPLICANT: THE VICTORIA UNIVERSITY OF MANCHESTER  
; TITLE OF INVENTION: NOVEL PROCOLLAGENS  
; FILE REFERENCE: d087857PUS LISTING  
; CURRENT APPLICATION NUMBER: US/09/029,348  
; CURRENT FILING DATE: 1998-05-07  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 623  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SEQUENCE  
; OTHER INFORMATION: DERIVED FROM CDNA OF PROCOLLAGENS  
US-09-029-348-3  
Query Match 12.0%; Score 73; DB 3; Length 623;  
Best Local Similarity 28.8%; Pred. No. 4.2;  
Matches 30; Conservative 10; Mismatches 36; Indels 28; Gaps 7;  
QY 16 GQGLLLTLEEH---IAHFLGTGGAATTMGNS-----CICRDDSGT---DDS 55  
Db 8 GSWLLALLHPTIILAQQAQVEGCGSHLQSYADRDVWKPEPCQICVC--DSGSVLCDDI 65  
QY 56 V-DTQQQQAENSAVP-----TADTRSQRDPVRPPRRGRGPHEPR 94  
Db 66 ICDDQELDCPNPEIFGECCAVCPQPPTAPTTRPP-NGQGPQGP 108  
RESULT 11



```
US-09-029-348-2
; Sequence 2, Application US/09029348
; Patent No. 6171827
; GENERAL INFORMATION:
; APPLICANT: THE VICTORIA UNIVERSITY OF MANCHESTER
; TITLE OF INVENTION: NOVEL PROCOLLAGENS
; FILE REFERENCE: d087857PUS LISTING
; CURRENT APPLICATION NUMBER: US/09/029,348
; CURRENT FILING DATE: 1998-05-07
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SEQUENCE
; OTHER INFORMATION: DERIVED FROM CDNA OF PROCOLLAGENS
US-09-029-348-2

Query Match      12.0%; Score 73; DB 3; Length 626;
Best Local Similarity 28.8%; Pred. No. 4.2;
Matches 30; Conservative 10; Mismatches 36; Indels 28; Gaps 7;

QY 16 GQGLLLTLEH---IAHFLGTGGAATTMGNS-----CICRDDSGT---DDS 55
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 8 GSWLLALLHPTIIAQEAVEGGCSHLGQSYADRDVWKPEPCQICVC--DSGSVLCDDI 65
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

QY 56 V-DTQQQQAENS AVP----TADTRSQRDPVVRPPRRGRGPHEPR 94
: | | | | : | | | | | | | | | | | | | | | | | | | |
Db 66 ICDDQELDCPNPEIPFGECCAVCPQPTATPRPP-NGQGPGPK 108
| | | | | : | | | | | | | | | | | | | | | | | | | |

RESULT 12
US-09-252-991A-28443
; Sequence 28443, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28443
; LENGTH: 333
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28443

Query Match      11.9%; Score 72.5; DB 4; Length 333;
Best Local Similarity 27.5%; Pred. No. 2.1;
Matches 25; Conservative 7; Mismatches 24; Indels 35; Gaps 3;

QY 29 HFLGTGGAATTMGNSCICRDDSGTDDSVDTQQQQAENS AVP-----TADTRSQRDPVVR 82
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 216 HRLRTGG-----DEGADEGRHHQPRQAAHRRRRLPGPDAGDHRRRGAEPDR 262
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 83 P-----PRRGPGPHEPRKK 97
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 263 QRTGDPAGHREAPGSLRPRRPRRGHLP RRR 293
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

RESULT 13
US-09-252-991A-20178
; Sequence 20178, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
```

```
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20178
; LENGTH: 562
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20178

Query Match      11.7%; Score 71.5; DB 4; Length 562;
Best Local Similarity 29.7%; Pred. No. 5.5;
Matches 22; Conservative 6; Mismatches 29; Indels 17; Gaps 2;

QY 36 AATTMGNSCICRDDSGTDDSVDTQQQQAENS AVPTADTRSQRDPVVRPPRRGRGPHEP-- 93
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 79 AATPAG-----EDGQLHQRRPRLAGPGSGAGAPADPRPGRRRRGAQRPPP 127
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

QY 94 ----RRKKQNV DGL 103
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 128 VAGSRARRSGTDAL 141
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

RESULT 14
US-09-252-991A-18531
; Sequence 18531, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18531
; LENGTH: 566
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18531

Query Match      11.7%; Score 71.5; DB 4; Length 566;
Best Local Similarity 23.6%; Pred. No. 5.6;
Matches 29; Conservative 10; Mismatches 37; Indels 47; Gaps 4;

QY 23 LEEHIAHFLGTGGAATTMGNSC--ICRDDSGTDDSV D-----TQQQQAENS AVPTA 71
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 118 LERRLRQFPGAQGTATGRRRSQRIVRQAPGPGRSVDPGHPGPPHAQRRAGSGTEGNAS 177
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 72 DTRSQRDP-----VRPPRR-----GRGPHEPR 95
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 178 RTRAPRAPGQQLPAGKRGQVRQAGDRGGARQLRPSRRPAAGTRLLHGPAARRPYRPAR 237
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 96 KKQ 98
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 238 RQR 240
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

RESULT 15
US-09-252-991A-26099
; Sequence 26099, Application US/09252991A
; Patent No. 6551795
```



```

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26099
; LENGTH: 863
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26099

```

Query Match	11.7%;	Score 71;	DB 4;	Length 863;
Best Local Similarity	29.1%;	Pred. NO. 11;		
Matches 25;	Conservative	8;	Mismatches 33;	Indels 20;
			Gaps	3;

QY 31 LGTGAATT-----MGNSCTCRDDSGTDDSVDTQQQQAENSAPFADT-----RS 75

Dd 335 LGPGTAARRTHRPWPGRGAGGDLURPDAGOADRLRGDPRRSPAOADPAGALRAAGRR 394

QY 76 QPRDPVRPP-----RRGRGPHEPRRK 96  
||| : ||| ||| ||| :  
Db 395 QPAVPRQPPGASGLRRRRRGDHLHRR 420

Search completed: September 13, 2004, 10:05:53  
Job time : 39 secs

